



Triadobatrachus was 10 cm (3.9 in) long, and still retained many primitive characteristics, such as possessing at least 26 vertebrae, where modern frogs have only four to nine. At least 10 of these vertebrae formed a short tail, which the animal may have retained as an adult.^[1] It probably swam by kicking its hind legs, although it could not jump,

This creature, or a relative, evolved eventually into modern frogs, the earliest example of which is Prosalirus, millions of years later in the Early Jurassic.^[3]

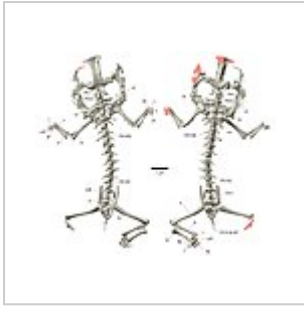
It was first discovered in the 1930s, when Adrien Massinot, near the village of Betsiaka in northern Madagascar, found an almost complete skeleton in the Induan Middle Sakamena Formation of the Sakamena Group. The animal must have fossilized soon after its death, because all bones lay in their natural anatomical position.

Although it was found in marine deposits, the general structure of *Triadobatrachus* shows that it probably lived for part of the time on land and breathed air. Its proximity to the mainland is further borne out by the remains of terrestrial plants found with it, and because most extant amphibians do not tolerate saltwater,^[7] and that this saltwater intolerance was probably present in the earliest lissamphibians.^[8]

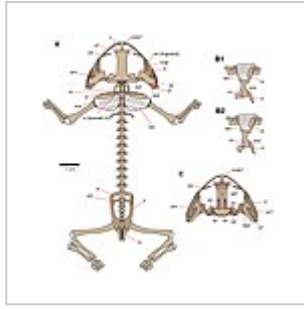
Gallery

<i>Triadobatrachus</i>											
Temporal range: Early Triassic, 250 Ma											
PreЄ	Є	OS	D	C	P	T	J	K	PgN		
											
Slabs of the fossil											
Scientific classification											
Kingdom:	Animalia										
Phylum:	Chordata										
Class:	Amphibia										
Genus:	† <i>Triadobatrachus</i> Kuhn, 1962										
Species:	† <i>T. massinoti</i>										
Binomial name											
† <i>Triadobatrachus massinoti</i> (Piveteau, 1936)											

Only the anterior part of the skull and the ends of the limbs were missing. This fossil was initially described under the name *Protopatrachus massinoti* by the French paleontologist Jean Piveteau in 1936.^{[4][5]} Much more detailed description were published more recently.^{[1][6]}



CT-scan



Diagram



Cast



Life restoration by N. Tamura

References

1. Ascarrunz, Eduardo; Rage, Jean-Claude; Legreneur, Pierre; Laurin, Michel (2016). "*Triadobatrachus massinoti*, the earliest known lissamphibian (Vertebrata: Tetrapoda) re-examined by μ CT-Scan, and the evolution of trunk length in batrachians" (<http://repository.naturalis.nl/cgi/b/bib/bib-idx?c=naturalis;type=simple;view=reslist;fmt=long;rgn1=id;q1=oai%3AARN0%3A610011;lang=en;sort=year;cc=naturalis;page=reslist;size=1;start=1>). *Contributions to Zoology*. **58** (2): 201–234.
 2. Palmer, D., ed. (1999). *The Marshall Illustrated Encyclopedia of Dinosaurs and Prehistoric Animals*. London: Marshall Editions. p. 56. ISBN 1-84028-152-9.
 3. Rocek, Z. (2000). "14. Mesozoic Amphibians". In Heatwole, H.; Carroll, R. L. (eds.). *Amphibian Biology. Paleontology: The Evolutionary History of Amphibians* (<http://rocek.gli.cas.cz/Reprints/AmphBiol3.pdf>) (PDF). 4. Surrey Beatty & Sons. pp. 1295–1331. ISBN 0-949324-87-6.
 4. Piveteau, J. (1936). "Une forme ancestrale des amphibiens anoures dans le Trias inférieur de Madagascar". *Comptes Rendus Hebdomadaires des Séances de l'Académie des Sciences*. **202**: 1607–1608.
 5. Piveteau, J. (1936). "Origine et évolution morphologique des amphibiens anoures". *Comptes Rendus Hebdomadaires des Séances de l'Académie des Sciences*. **203**: 1084–1086.
 6. Rage, J-C; Roček, Z. (1989). "Redescription of *Triadobatrachus massinoti* (Piveteau, 1936) an anuran amphibian from the Early Triassic". *Palaeontographica Abteilung A*. **206**: 1–16.
 7. Hopkins, G. R.; Brodie Jr, E. D. (2015). "Occurrence of Amphibians in Saline Habitats: A Review and Evolutionary Perspective" (<http://www.hljournals.org/doi/abs/10.1655/HERPMONOGRAPHIS-D-14-00006>). *Herpetological Monographs*. **29** (1): 1–27. doi:10.1655/herpmonographs-d-14-00006 (<https://doi.org/10.1655%2Fherpmonographs-d-14-00006>).
 8. Laurin, Michel; Soler-Gijón, Rodrigo (2010). "Osmotic tolerance and habitat of early stegocephalians: indirect evidence from parsimony, taphonomy, paleobiogeography, physiology and morphology" (<http://sp.lyellcollection.org/content/339/1/151.short>). *Geological Society of London, Special Publications*. **339**: 151–179. doi:10.1144/sp339.13 (<https://doi.org/10.1144%2Fsp339.13>).
- Benes, Josef. Prehistoric Animals and Plants. Pg. 114. Prague: Artia, 1979.

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